Applies To: **Honda Vehicles With Programmable Control Units/Modules** **September 9, 2011**

Updating Control Units/Modules

(Supersedes 01-023, dated July 26, 2011, to revise the information marked by the black bars)

REVISION SUMMARY

- Under REQUIRED TOOLS AND EQUIPMENT, the GNA600, the HDS Pocket Tester, and the HIM were deleted.
- HOW TO CHECK IF THE MVCI IS UPDATED was added.
- Under steps 7 and 9, text was changed, and notes were added.

The procedures in this service bulletin are used and referenced in other service bulletins.

Most 2002 and later Hondas have reprogrammable control units/modules. To update (reprogram) any of these control units/modules, you need the vehicle you're working on and the Modular Vehicle Communications Interface (MVCI) unit with the latest control module (CM) update software installed.

This service bulletin describes these subjects:

- Who to contact for questions or problems when using Honda-supplied updating equipment or the Interactive Network (iN).
- Required Tools and Equipment: MVCI
- Updating Tips and Precautions
- Updating with the MVCI

NOTE: Whenever you install a new, reprogrammable control unit/module, check that it has the latest software, and update it if needed.

WARRANTY CLAIM INFORMATION

Skill Level: Repair Technician

Refer to the specific service bulletin for the symptom you are repairing.

QUESTIONS ABOUT THE UPDATING EQUIPMENT OR THE INTERACTIVE NETWORK

For questions about the Honda-supplied updating equipment, call American Honda's Special Tools hotline at **800-346-6327**.

For questions about the iN, call the iN Support Center at **800-245-4343**.

REQUIRED TOOLS AND EQUIPMENT

*Available through the Honda Tool and Equipment Program; call **888-424-6857***

Modular Vehicle Communication Interface (MVCI):

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Skill Level R REPAIR

CUSTOMER INFORMATION: The information in this bulletin is intended for use only by skilled technicians who have the proper tools, equipment, and training to correctly and safely maintain your vehicle. These procedures should not be attempted by "do-it-yourselfers," and you should not assume this bulletin applies to your vehicle, or that your vehicle has the condition described. To determine whether this information applies, contact an authorized Honda automobile dealer.

MVCI Kit

NOTE: For more information about the kit contents, refer to the *Modular Vehicle Communication Interface (MVCI) User Guide* or the Honda Tool and Equipment Program on ISIS.

- MVCI Unit - M/N OTCH5528542
- Ethernet Cable - M/N OTCH559594
- OBD-II 16P Cable (DLC Cable) - M/N OTC382532
- AC Adapter - M/N OTCH550207
- 4GB SD Memory Card - M/N OTCH55088

UPDATING TIPS AND PRECAUTIONS

- If you're updating a control module/unit on a new vehicle, make sure all its fuses were installed at PDI.
- To prevent control unit/module damage, do not operate anything electrical (audio system, brakes, A/C, power windows, moonroof, etc.) during the update.
- If the Database Update listed in the service bulletin is later than that shown by the software, please see the software installation procedures in the following two documents in Tool Information on ISIS (go to **General Publications**, then **Tool Information**):
  - *Installation Instructions for HDS PC Software*
  - *MVCI User Guide* (see HDS MVCI Firmware Update section)
- Do not connect an additional power supply to the MVCI when it is connected to the vehicle; power is supplied through the DLC.
- To ensure that the control module/unit is not permanently damaged during updating, *verify that the vehicle's 12-volt battery is fully charged before starting an update.*

  NOTE: If the vehicle's 12-volt battery drops below 10 volts during the update, the programming status bar may go past 100 percent, or the updating tool may display an error message.
- If you have a problem during an update (D4/ immobilizer indicator flashes, update tool freezes, etc.), you can minimize the chances of damaging the control unit/module by doing one or more of these actions:
  - **CRITICAL: Keep the ignition switch in ON (II).**
  - Connect a jumper battery (DO NOT connect a battery charger).
  - Disconnect the updating tool from the vehicle's DLC.
  - Reboot the updating tool.
  - Reconnect the updating tool to the vehicle's DLC, and retry the updating procedure.

HOW TO CHECK IF THE MVCI IS UPDATED

Whenever there is an HDS software update, there will be an update for the MVCI. After updating the HDS, update the MVCI. For more information on how to update the MVCI, refer to the *MVCI User Guide* on ISIS under **General Publications > Tool Information**.

To check that the MVCI has the latest database installed, go to the iN home page and click on **SERVICE > Service Bay > Diagnostic Tools Software Versions**. The most recent version of the database is listed under CM Update database.

Automotive Diagnostic Tools Software Versions

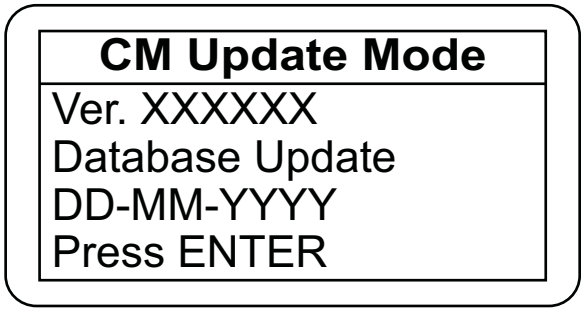
For technical assistance please call the Special Tool Hotline at 800-346-6327.
Hours of operation are from Mondays to Friday 7AM to 5PM Pacific Standard Time.

Honda Diagnostic Tool Name	Model Number	Current Software Version	Date Available to Dealer
3G HDS PC Software (Red Label CD Disc). Note: This HDS release can be automatically downloaded via the HDM (HDS Download Manager). For best result, ensure HDS version 3.001.004 (Yellow colored DVD) has been installed prior to this update.	N/A	3.001.009	8/3/2011
CM Update Database	N/A	27-Jul-2011	8/3/2011
MVCI (Modular Vehicle Communication Interface)	HON-3828-HR	2.08.84	6/30/2011
Battery/Electrical System Analyzer ED-18™ (Version 1)	INBED18LLH	193-758N	1/31/2011
Battery/Electrical System Analyzer ED-18™-2 (Version 2)	INB17191840	192-593F	1/31/2011
Honda GR8-1100P Diagnostic Battery Station	MTRGR81100P	192-210007G	1/31/2011
TPMS Sensor Reader	AEQVT55	CH1-09	10/28/2009
PGM OBD II Tester (No longer supported)	2001625	N/A	N/A
HDS GDS2200 Tablet (No longer supported)	TDSGDS2200	N/A	N/A
HDS Pocket Tester (No longer supported)	TDS3557011401	N/A	N/A
HIM [Honda Interface Module] (No longer supported)	3557-0117-00	N/A	N/A

Last Update: July 29, 2011

Turn on the MVCI, then press the **ENTER** button on the MVCI to see the User Config menu. Select **CM Update Mode**, then select **Reprogramming**.

The current database update version is listed under Database Update.



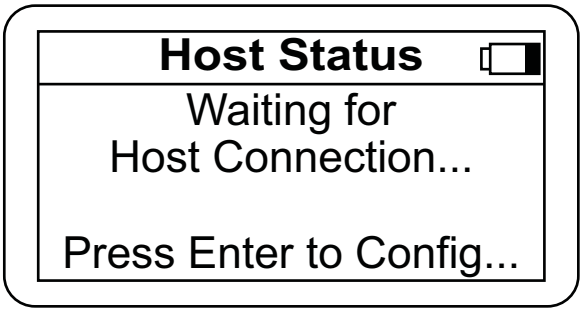
If the Database Update version is not the same as the most recent version listed on ISIS, update the MVCI.

Unnecessary or incorrect repairs resulting from a failure to update the HDS or MVCI are not covered under warranty.

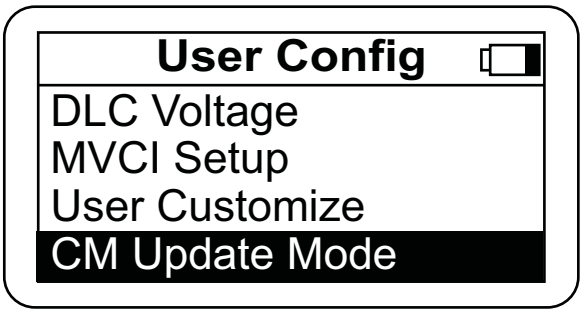
UPDATING WITH THE MVCI

Make sure you have the latest control module (CM) update software loaded from your HDS PC to your MVCI. To make sure you have the latest CM database update, see HOW TO CHECK IF THE MVCI IS UPDATED. The Database Update version appears when you select **Reprogramming**, then press **ENTER**.

1. Connect the DLC cable to the MVCI and to the vehicle's DLC.
2. Turn the ignition switch to ON (II). The MVCI automatically boots up.



3. Press the **ENTER** button on the MVCI to see the **User Config** menu. Select **CM Update Mode**.



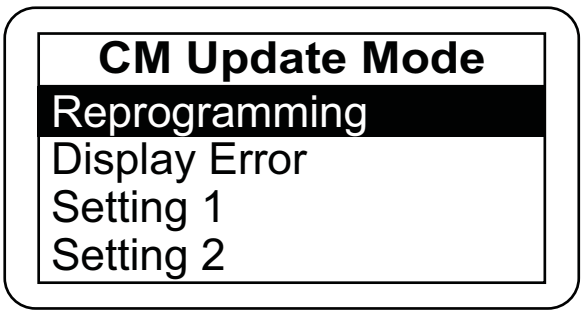
4. Select **Reprogramming**, then press **ENTER**.

   NOTE: Use these MVCI default settings:

   Setting 1 -
   Destination: USA
   Language: American English

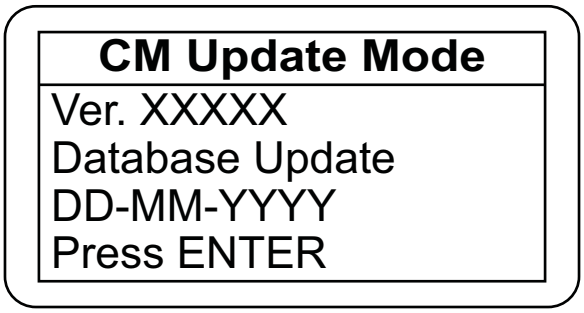
   Setting 2 -
   Auto Detect: Yes

   For more information on these settings, refer to the *MVCI User Guide*.

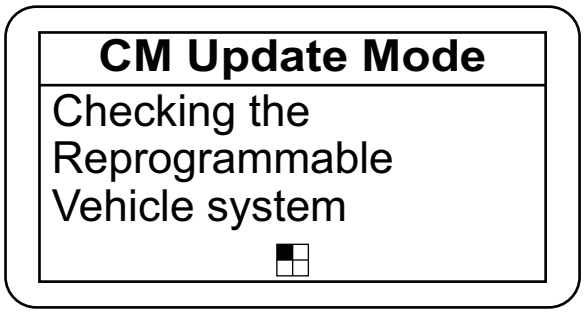


5. The CM Update software information appears. Press **ENTER** to continue.

   NOTE: If the date shown below Database Update is an earlier version than the one listed in a Honda service communication (service bulletin, product update, iN message, etc.), press **ESC**, then update your MVCI before continuing.

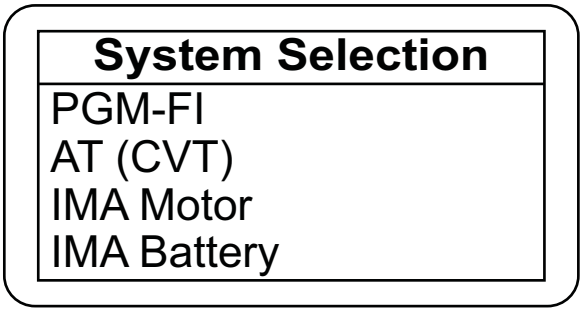


6. Wait for the MVCI to check the vehicle for reprogrammable systems. This may take up to 90 seconds.

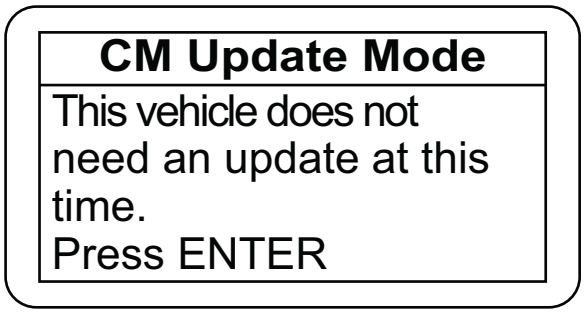


7. The MVCI automatically checks the vehicle's reprogrammable systems and, if an update is available, displays that system on the System Selection screen. Press **ENTER** to continue, or press **ESC** to exit.

   NOTE: If you are updating a system based on a service bulletin, select the system you are being directed to update.

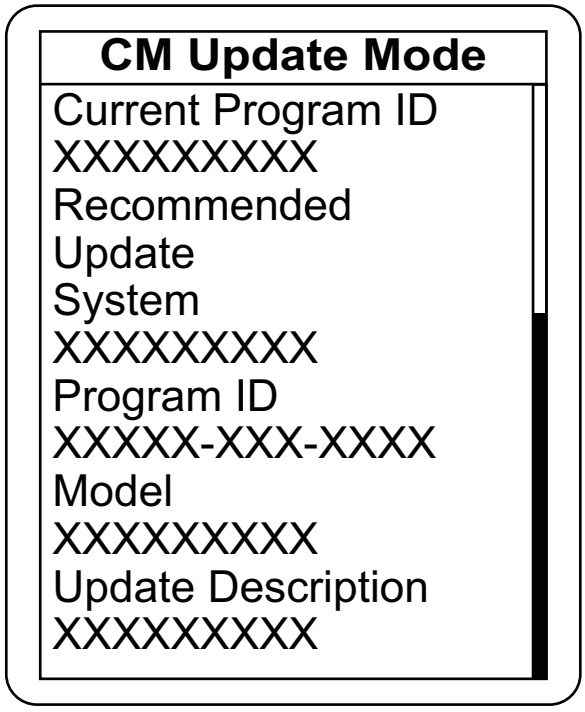


8. If the reprogrammable systems on the vehicle are already updated, the following screen will be displayed:

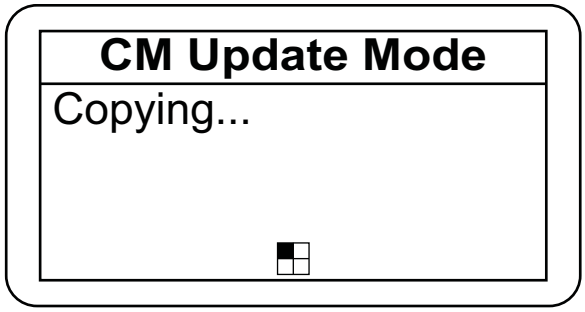


9. The current program ID, the recommended update, and other details appear. Press **ENTER** to continue, or press **ESC** to exit.

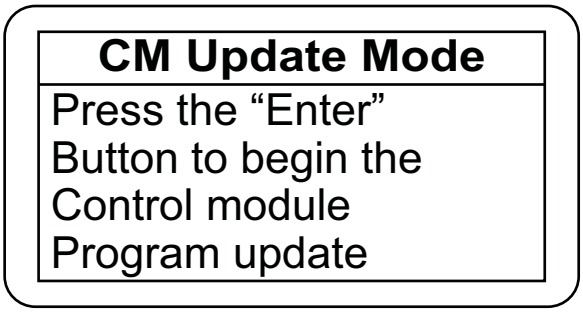
   NOTE: If you are updating a system based on a service bulletin, check that the MVCI is recommending the applicable program ID listed in the bulletin (or a later program ID) as the Recommended Update when the update begins.



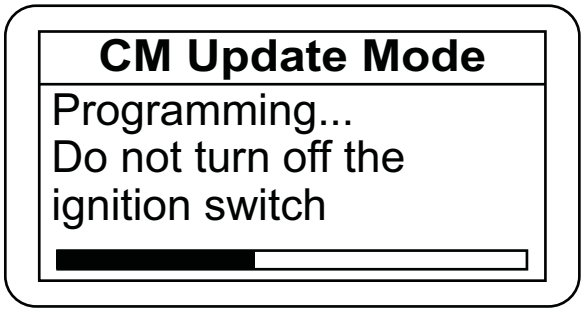
10. Wait for the MVCI to copy the data for updating the vehicle.



11. After the MVCI has copied the files, a confirmation screen appears. Press **ENTER** to update the control unit/module, or press **ESC** to exit.



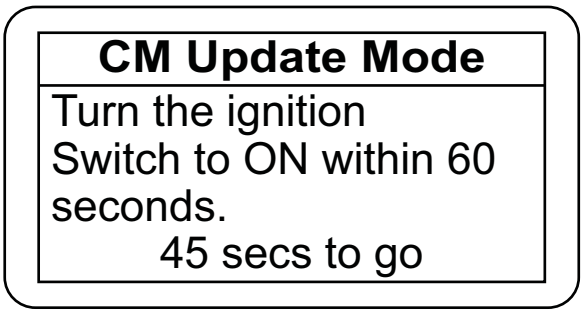
12. Wait for the MVCI to update the control unit/ module.



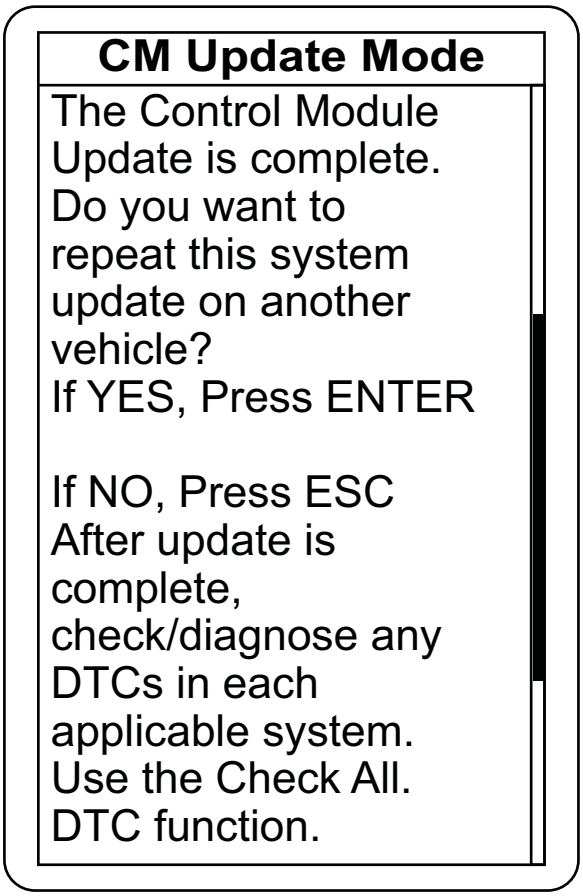
13. After the MVCI finishes updating the control unit/ module, turn the ignition switch to LOCK (0) when directed by the MVCI.

14. Turn the ignition switch back to ON (II) within 60 seconds to complete the updating procedure.

    NOTE: The MVCI has a countdown timer. If you do not turn the ignition switch to ON (II) within 60 seconds, the MVCI sets an error code.



15. After finishing the updating procedure, the MVCI gives you the option of updating the same system on another vehicle. For more information on updating several vehicles, see the *MVCI User Guide*.



16. If an error occurs during the updating procedure, an error message appears. Keep the ignition switch in ON (II). Press **ENTER** to display the error code. Refer to the CM Update Error Code Table in the *MVCI User Guide* for more information about the code and its solutions.